# An Alternative to Traditional Hard Drives

## 1.8" microSATA SSD S518

PQI's 1.8"microSATA SSD S518 has a maximum read speed of 150MB/sec and write speed of 90MB/sec. These transfer speeds are prefect for transferring large capacity high definition multimedia files. PQI's S518 is shock proof and consumes minimum power. These two characteristics provide users with a peace of mind and maximum battery usage on notebooks. Available in 32GB ~ 128GB, it can act as the perfect hard drive replacement if speed and power consumption are your main concerns.

With more than 10 years of storage technology expertise, PQI is dedicated in providing the complete storage solution and cutting edge technology to our customers.

## Product Specifications

Interface: microSATA (Serial ATA)
Transfer speed: Read: Up to 150MB/sec
Write: Up to 90MB/sec
Capacity: 32GB ~ 128GB
Power consumption: 5.0V operating voltage
Dimension: 78.5 x 54 x 5 mm
Weight: 40g
Features: • 1.8 inch SATA interface
• High performance and reliable
• Quiet operation
Warranty: 2 years

S518 Vs 2.5HD average read/ write speed

| Product | S518 | HDD 5400rpm | HDD 7200rpm |
|---|---|---|---|
| Read | 150MB | ~50MB | ~70MB |
| Write | 90MB | ~40MB | ~60MB |

## General Description

PQI's **SATA Solid State Disk (SSD)** is the storage device based on NAND flash memory technology. This product complies Serial ATA standard interface and is suitable for data storage media and code storage device for embedded system and boot disk. By using **1.8' Micro SATA SSD,** it is possible to operate good performance for the systems, which have SATA interface.

## Features

- 1.8" Standard micro SATA form factor.
- Memory Capacities
  MLC: 32GBytes ~ 128GBytes
- High performance and reliability
- Noiseless and stable installation to system
- Operating voltage 5.0V operation

## Performance

| Item | Read | Write | Random Read | Random Write |
|---|---|---|---|---|
| 1.8inch | 152 MB/s | 93 MB/s | 128.1MB/s | 23.2 MB/s |

## Capacities

| Item | Mechanical Height | Capacities |
|---|---|---|
| 1.8inch | 5.0mm | 32GB, 64GB, 128GB |

## Dimensions

| Item | Length | Width | Height |
|---|---|---|---|
| 1.8inch | 78.5 | 54.0 | 5 |

## Environment

- Shock
  - Operating: 1,500G, duration 0.5ms, half sine wave
  - Vibration: 20G peak, 10~2KHz with 3axis
- Humidity: 0℃~55℃ / 95% RH, 10cycles
- Temperature
  - Operating Temperature: 0℃ ~ +70℃
  - Storage Temperature: -45℃ ~ +85℃

## Power Supply

- Voltage: DC +5.0V ± 10%

## Compliance:

- Fully Compliant with RoHS directive
- CE and FCC compatibility

## Reliability

- MTBF > 2,000,000 Hours

## Warranty: 2-year